

EEEEEEEEE	DDDDDDDDDD	TTTTTTTTTT
EEEEEEEEE	DDDDDDDDDD	TTTTTTTTTT
EEEEEEEEE	DDDDDDDDDD	TTTTTTTTTT
EEE	DDD	TTT
EEEEEEEEE	DDDDDDDDDD	TTT
EEEEEEEEE	DDDDDDDDDD	TTT
EEEEEEEEE	DDDDDDDDDD	TTT

FILEID**WORKIO

E 2

WW	WW	000000	RRRRRRRR	KK	KK	IIIIII	000000
WW	WW	000000	RRRRRRRR	KK	KK	IIIIII	000000
WW	WW	00	00	RR	RR	II	00
WW	WW	00	00	RR	RR	II	00
WW	WW	00	00	RR	RR	II	00
WW	WW	00	00	RR	RR	II	00
WW	WW	00	00	RR	RR	II	00
WW	WW	00	00	RRRRRRRR	KKKKKK	II	00
WW	WW	00	00	RRRRRRRR	KKKKKK	II	00
WW	WW	00	00	RR	RR	II	00
WW	WW	00	00	RR	RR	II	00
WWWW	WWWW	00	00	RR	RR	II	00
WWWW	WWWW	00	00	RR	RR	II	00
WW	WW	000000	RR	RR	KK	IIIIII	000000
WW	WW	000000	RR	RR	KK	IIIIII	000000

The diagram consists of several groups of symbols arranged in a grid-like pattern. On the far left, there are ten 'LL' symbols stacked vertically. To the right of them is a vertical column of ten 'II' symbols. Further to the right is a vertical column of ten 'SS' symbols. At the bottom left, there is a horizontal row of ten 'LLL' symbols. The symbols are rendered in a bold, black, sans-serif font.

EDTS
V04-

```
0001 0 %TITLE 'WORKIO - module for all i/o to workfile'
0002 0 MODULE EDT$WORKIO (
0003 0           IDENT = 'VO4-000' ) =                                ! Basic work i/o routine for EDT
0004 0
0005 1 BEGIN
0006 1
0007 1 ****
0008 1 *
0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0011 1 * ALL RIGHTS RESERVED.
0012 1 *
0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0018 1 * TRANSFERRED.
0019 1 *
0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0022 1 * CORPORATION.
0023 1 *
0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 1 *
0027 1 *
0028 1 ****
0029 1 .
0030 1 .
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 This is the basic file i/o routine used by EDT.
0037 1
0038 1 ENVIRONMENT: Runs on Vax/Vms
0039 1
0040 1 AUTHOR: Shelly T. Solomon, CREATION DATE: 29-JAN-1982
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. STS 29-Jan-1982
0045 1 1-002 - Change parameter passed to edt$wf_rd on 11's STS 16-Feb-1982
0046 1 1-003 - Pass address of record_desc to edf$wf_rd. STS 26-Feb-1982
0047 1 1-004 - Add literals for callable EDT. STS 08-Mar-1982
0048 1 1-005 - Return correct status to caller. STS 10-Mar-1982
0049 1 1-006 - Fix module name and standardize appearance. JBS 07-Apr-1982
0050 1 1-007 - Return status from closing work file. JBS 12-Apr-1982
0051 1 1-008 - Don't use special linkage on 11's. STS 03-Jun-1982
0052 1 1-009 - Don't need special linkage on VAX-11 either. JBS 22-Mar-1983
0053 1 --
0054 1 --
```

```
56      0055 1 %SBTTL 'Declarations'  
57      0056 1 !  
58      0057 1 TABLE OF CONTENTS:  
59      0058 1 !  
60      0059 1 !  
61      0060 1 REQUIRE 'EDTSRC:TRAROUNAM';  
62      0499 1 !  
63      0500 1 FORWARD ROUTINE  
64      0501 1     EDT$WORKIO;  
65      0502 1 !  
66      0503 1 !  
67      0504 1 INCLUDE FILES:  
68      0505 1 !  
69      0506 1 !  
70      0507 1 REQUIRE 'EDTSRC:EDTREQ';  
71      0642 1 !  
72      L 0643 1 %IF %BLISS (BLISS32)  
73      0644 1 %THEN  
74      0645 1 !  
75      0646 1 REQUIRE 'EDTSRC:SYSSYM';  
76      0676 1 !  
77      0677 1 %FI  
78      0678 1 !  
79      0679 1 !  
80      0680 1 MACROS:  
81      0681 1 !  
82      0682 1     NONE  
83      0683 1 !  
84      0684 1 EQUATED SYMBOLS:  
85      0685 1 !  
86      0686 1 !  
87      L 0687 1 %IF %BLISS (BLISS32)  
88      0688 1 %THEN  
89      0689 1 !  
90      0690 1 LITERAL  
91      0691 1     EDT$K_FAC_NO = 133;  
92      0692 1 !  
93      0693 1 %FI  
94      0694 1 !  
95      0695 1 LITERAL  
96      0696 1     EDT$K_OPEN_IN_OUT = 1,  
97      0697 1     EDT$K_GET = 5,  
98      0698 1     EDT$K_PUT = 6,  
99      0699 1     EDT$K_CLOSE_DEL = 7;  
100     0700 1 !  
101     0701 1 !  
102     0702 1 !  
103     0703 1 FIELDS:  
104     0704 1 !  
105     0705 1     NONE  
106     0706 1 !  
107     0707 1 PSECTS:  
108     0708 1 !  
109     0709 1     none  
110     0710 1 !  
111     0711 1 OWN STORAGE:  
112     0712 1 !
```

EDT\$WORKIO
VO4-000

WORKIO - module for all i/o to workfile
Declarations

H 2
16-Sep-1984 02:17:46
14-Sep-1984 12:25:50

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]WORKIO.BLI;1 Page 3
(2)

: 113 0713 1 ! in the routine
: 114 0714 1 !
: 115 0715 1 ! EXTERNAL REFERENCES:
: 116 0716 1 !
: 117 0717 1 ! in the routine
: 118 0718 1 !

EDT\$
VO4-

```
120 0719 1 %SBTTL 'EDT$WORKIO - Basic EDT workfile routine'  
121 0720 1  
122 0721 1 GLOBAL ROUTINE EDT$WORKIO ( | Basic EDT workfile routine  
123 0722 1 CODE, | Operation to perform  
124 0723 1 RECORD_NO, | record number to perform it on  
125 0724 1 RECORD_DESC | Descriptor for the record  
126 0725 1 ) =  
127 0726 1  
128 0727 1 /**  
129 0728 1 | FUNCTIONAL DESCRIPTION:  
130 0729 1  
131 0730 1 | This is the basic work file i/o routine for EDT. Callable EDT calls this  
132 0731 1 | routine to do any i/o to or from the workfile if this is the routine passed to it by the calling  
133 0732 1 | program. This is the routine passed to callable EDT by the "real" EDT.  
134 0733 1  
135 0734 1 | CALLING SEQUENCE:  
136 0735 1  
137 0736 1 | ret_status.wlc.v = EDT$WORKIO (code.rl.r, record_no.rl.r, record_desc.rbu.dx)  
138 0737 1  
139 0738 1 | FORMAL PARAMETERS:  
140 0739 1  
141 0740 1 | code = a code specifying what kind of i/o operation on the workfile  
142 0741 1 | is desired  
143 0742 1  
144 0743 1 | record_no = for gets and puts this is the bucket number  
145 0744 1  
146 0745 1 | record_desc = for gets and puts a descriptor pointing to the contents  
147 0746 1 | of the bucket  
148 0747 1  
149 0748 1 | IMPLICIT INPUTS:  
150 0749 1  
151 0750 1 | NONE  
152 0751 1  
153 0752 1 | IMPLICIT OUTPUTS:  
154 0753 1  
155 0754 1 | NONE  
156 0755 1  
157 0756 1 | COMPLETION STATUS:  
158 0757 1  
159 0758 1 | Normally SSS_NORMAL  
160 0759 1  
161 0760 1 | SIDE EFFECTS:  
162 0761 1  
163 0762 1 | NONE  
164 0763 1  
165 0764 1 |--  
166 0765 1  
167 0766 2 BEGIN  
168 0767 2  
169 0768 2 MAP  
170 0769 2 | RECORD_DESC : REF BLOCK [8, BYTE];  
171 0770 2  
172 0771 2 | EXTERNAL ROUTINE  
173 0772 2 | EDT$SWF_OPN,  
174 0773 2 | EDT$SWF_CLS,  
175 0774 2 | EDT$SWF_WR,  
176 0775 2 | EDT$SWF_RD;  
| open the workfile  
| close the workfile  
| write a record to the work file  
| read a record from the workfile
```

```
177 0776 2
178 0777 2 MESSAGES ((WRKFILOVF, INTERERR, IOERRWRK));
179 0778 2
180 0779 2 LOCAL
181 0780 2 STATUS,
182 0781 2 IO_STS;
183 0782 2 IO_STV;
184 0783 2
185 0784 2 CASE .CODE FROM EDT$K_OPEN_IN_OUT TO EDT$K_CLOSE_DEL OF
186 0785 2 SET ! over all the code options
187 0786 2
188 0787 2 [EDT$K_OPEN_IN_OUT] : ! open for input and output.
189 0788 3 BEGIN
190 0789 3 STATUS = EDT$$WF_OPN ();
191 0790 3 RETURN (.STATUS);
192 0791 2 END;
193 0792 2
194 0793 2 [EDT$K_GET] : ! we wish to get a record from a file
195 0794 3 BEGIN
196 0795 3
197 L 0796 3 %IF %BLISS (BLISS32)
198 0797 3 %THEN
199 0798 3 EDT$$WF_RD (.RECORD_NO, .RECORD_DESC);
200 U 0799 3 %ELSE
201 U 0800 3 EDT$$WF_RD (.RECORD_NO, RECORD_DESC [DSC$A_POINTER]);
202 0801 3 %FI
203 0802 3
204 0803 3 RETURN (1);
205 0804 2 END;
206 0805 2
207 0806 2 [EDT$K_PUT] : ! we wish to put a record to a file
208 0807 3 BEGIN
209 0808 3
210 L 0809 3 %IF %BLISS (BLISS32)
211 0810 3 %THEN
212 0811 3 EDT$$WF_WR (.RECORD_NO, .RECORD_DESC);
213 U 0812 3 %ELSE
214 U 0813 3 EDT$$WF_WR (.RECORD_NO);
215 0814 3 %FI
216 0815 3
217 0816 3 RETURN (1);
218 0817 2 END;
219 0818 2
220 0819 2 [EDT$K_CLOSE_DEL] :
221 0820 3 BEGIN
222 0821 3 STATUS = EDT$$WF_CLS ();
223 0822 3 RETURN (.STATUS);
224 0823 2 END;
225 0824 2
226 0825 2 [INRANGE, OUTRANGE] :
227 0826 2 ASSERT (0);
228 0827 2 TES;
229 0828 2
230 0829 2 RETURN (1);
231 0830 1 END;
```

! End of routine EDT\$WORKIO.

EDT\$WORKIO
V04-000

WORKIO - module for all i/o to workfile
EDT\$WORKIO - Basic EDT workfile routine

K 2
16-Sep-1984 02:17:46 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:25:50 DISK\$VMSMASTER:[EDT.SRC]WORKIO.BLI;1 Page 6
(3)

EDT\$
V04-

.TITLE EDT\$WORKIO WORKIO - module for all i/o to workfile
.IDENT \V04-000\

.EXTRN EDT\$\$WF_OPN, EDT\$\$WF_CLS
.EXTRN EDT\$\$WF_WR, EDT\$\$WF_RD
.EXTRN EDT\$WRRFILEOVF, EDT\$INTERERR
.EXTRN EDT\$IOERRWRK, EDT\$INTER_ERR

.PSECT _EDT\$CODE,NOWRT, SHR, PIC,2

0034	03 0027	04 001A	04 0004 BC CF 000002 000007 1\$:	.ENTRY EDT\$WORKIO, Save R2 .CASEL @CODE, #4, #3 .WORD 2\$-1\$,- 3\$-1\$,- 4\$-1\$,- 5\$-1\$	0721 0784
			00000000G 00	00 FB 0000F CALLS #0, EDT\$INTER_ERR 2E 11 00016 BRB 7\$	0826 0784
			00000000G 00	00 FB 00018 2\$: CALLS #0, EDT\$WF_OPN 21 11 0001F BRB 6\$	0789
		7E	08 00000000G 00	AC 7D 00021 3\$: MOVQ RECORD NO, -(SP) 02 FB 00025 CALLS #2, EDT\$WF_RD 18 11 0002C BRB 7\$	0798 0803
		7E	08 00000000G 00	AC 7D 0002E 4\$: MOVQ RECORD NO, -(SP) 02 FB 00032 CALLS #2, EDT\$WF_WR 08 11 00039 BRB 7\$	0811 0816
		52	00000000G 00	00 FB 0003B 5\$: CALLS #0, EDT\$WF_CLS 50 D0 00042 6\$: MOVL R0, STATUS 04 00045 RET 50 01 D0 00046 7\$: MOVL #1, R0 04 00049 RET	0821 0822 0829 0830

: Routine Size: 74 bytes, Routine Base: _EDT\$CODE + 0000

: 232 0831 1
: 233 0832 1 !<BLF/PAGE>

EDT\$WORKIO
V04-000 WORKIO - module for all i/o to workfile
EDT\$WORKIO - Basic EDT workfile routine
; 235 0833 1 END
; 236 0834 1
; 237 0835 0 ELUDOM

L 2
16-Sep-1984 02:17:46 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:25:50 DISK\$VMSMASTER:[EDT.SRC]WORKIO.BLI;1 Page 7
! End of module EDT\$WORKIO

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	74	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:04.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS:WORKIO/OBJ=OBJ\$:WORKIO MSRC\$:WORKIO.BLI/UPDATE=(ENH\$:WORKIO)

Size: 74 code + 0 data bytes
Run Time: 00:16.6
Elapsed Time: 00:23.3
Lines/CPU Min: 3023
Lexemes/CPU-Min: 8353
Memory Used: 82 pages
Compilation Complete

0142 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

